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Job No.: CQCE/BBMP/MBN/W.No.12/2018-19 Date: 07.01.2019

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. Maruthi. B. N,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to roads and drains at Abbigere Layout roads in ward no.12 Shettyhalli Sub division, BBMP, Bangalore.
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	400 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

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Job No.: CQCE/BBMP/MBN/W.No.12/2018-19 Date : 07.01.2019

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Maruthi. B. N,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains at Abbigere Layout roads in ward no.12 Shettyhalli Sub division, BBMP, Bangalore.

Date of Testing : 07.01.2019

Material : Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	87	8.70	8.70	91.3	90-100
2.36	135	13.50	22.20	77.8	75-100
1.18	162	16.20	38.40	61.6	55-90
600 Micron	147	14.70	53.10	46.9	35-59
300 Micron	226	22.60	75.70	24.3	8-30
150 Micron	182	18.20	93.90	6.1	0-10

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Job No.: CQCE/BBMP/MBN/W.No.12/2018-19 Date : 07.01.2019

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Maruthi. B. N,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains at Abbigere Layout roads in ward no.12 Shettyhalli Sub division, BBMP, Bangalore.

Date of Testing : 07.01.2019

Material : 40mm Aggregates

Total wt. of aggregates in gms = **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	496	3.31	3.31	96.69	95-100
20	7352	49.01	52.32	47.68	30-70
10	4328	28.85	81.17	18.83	10-35
4.75	2269	15.13	96.30	3.70	0-5

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ಕಾರ್ಯ & ಪಾಲನಾ ವಲಯ ಕಛೇರಿಯಿಂದ ರಸ್ತೆಗಳು ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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Job No.: CQCE/BBMP/MBN/W.No.12/2018-19 Date: : 07.01.2019

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Maruthi. B. N,** Contractor, Bangalore.

Name of Work : Improvements to roads and drains at Abbigere Layout roads in ward no.12 Shettyhalli Sub division, BBMP, Bangalore.

Date of Testing : 07.01.2019

Material : 20mm Aggregates

Total wt. of aggregates in gms = **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	175	3.5	3.5	96.5	95-100
10	2869	57.4	60.9	39.1	25-55
4.75	1728	34.6	95.4	4.6	0-10

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Job No.: CQCE/BBMP/MBN/W.No.12/2018-19 Date: 08.02.2019

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP,
Agency : **Sri. Maruthi. B. N,** Contractor, Bangalore.
Name of Work : Improvements to roads and drains at Abbigere Layout roads in ward no.12 Shettyhalli Sub division, BBMP, Bangalore.
Sample Identification : 8mm,10mm,12mm,16mm Fe 500 TMT Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test : 08.02.2019

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.39	541	552	13.5
2	Fe 500	10	0.62	556	564	14
3	Fe 500	12	0.89	569	578	15
4	Fe 500	16	1.58	582	593	15.5

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Job No.: CQCE/BBMP/MBN/W.No.12/2018-19 Date: 17.02.2019

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Maruthi. B. N,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Abbigere Layout roads in ward no.12 Shettyhalli Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.02.2019	17.02.2019	8.125	356.9	15.86
2	10.02.2019	17.02.2019	8.165	365.8	16.26
3	10.02.2019	17.02.2019	8.139	352.4	15.66

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Job No.: CQCE/BBMP/MBN/W.No.12/2018-19 Date: 10.03.2019

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Maruthi. B. N,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Abbigere Layout roads in ward no.12 Shettyhalli Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.02.2019	10.03.2019	8.265	532.5	23.67
2	10.02.2019	10.03.2019	8.225	496.8	22.08
3	10.02.2019	10.03.2019	8.251	512.7	22.79

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TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Maruthi. B. N,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Abbigere Layout roads in ward no.12 Shettyhalli Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.02.2019	17.02.2019	8.148	356.2	15.83
2	10.02.2019	17.02.2019	8.132	347.8	15.46
3	10.02.2019	17.02.2019	8.192	365.1	16.23

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Job No.: CQCE/BBMP/MBN/W.No.12/2018-19

Date: 10.03.2019

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Maruthi. B. N,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Abbigere Layout roads in ward no.12 Shettyhalli Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.02.2019	10.03.2019	8.235	532.6	23.67
2	10.02.2019	10.03.2019	8.264	526.4	23.40
3	10.02.2019	10.03.2019	8.291	511.2	22.72

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Job No.: CQCE/BBMP/MBN/W.No.12/2018-19 Date: 18.02.2019

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Maruthi. B. N,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Abbigere Layout roads in ward no.12 Shettyhalli Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.02.2019	18.02.2019	8.152	348.9	15.51
2	11.02.2019	18.02.2019	8.147	352.6	15.67
3	11.02.2019	18.02.2019	8.192	364.7	16.21

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Job No.: CQCE/BBMP/MBN/W.No.12/2018-19 Date: 11.03.2019

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Maruthi. B. N,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Abbigere Layout roads in ward no.12 Shettyhalli Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.02.2019	11.03.2019	8.246	521.4	23.17
2	11.02.2019	11.03.2019	8.293	536.2	23.83
3	11.02.2019	11.03.2019	8.241	511.9	22.75

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Job No.: CQCE/BBMP/MBN/W.No.12/2018-19 Date: 18.02.2019

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Maruthi. B. N,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Abbigere Layout roads in ward no.12 Shettyhalli Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.02.2019	18.02.2019	8.152	356.8	15.86
2	11.02.2019	18.02.2019	8.164	369.7	16.43
3	11.02.2019	18.02.2019	8.135	342.2	15.21

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

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CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/MBN/W.No.12/2018-19 Date: 11.03.2019

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Maruthi. B. N,** Contractor, Bangalore.

Name of the work : Improvements to roads and drains at Abbigere Layout roads in ward no.12 Shettyhalli Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.02.2019	11.03.2019	8.224	529.5	23.53
2	11.02.2019	11.03.2019	8.260	536.8	23.86
3	11.02.2019	11.03.2019	8.295	514.0	22.84

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

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ಮಾ.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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